Application No.: 10/059,909

BB1333USCIP (DPNT0003-100)

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- Claim 1 (previously presented): An isolated polynucleotide comprising:
- (a) a nucleotide sequence encoding a polypeptide having lipoxygenase activity, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:16 have at least 80% sequence identity based on the Clustal alignment method, or
- (b) the complement of the nucleotide sequence, wherein the complement and the nucleotide sequence contain the same number of nucleotides and are 100% complementary.
- Claim 2 (previously presented): The polynucleotide of Claim 1, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:16 have at least 85% identity based on the Clustal alignment method.
- Claim 3 (previously presented): The polynucleotide of Claim 1, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:16 have at least 90% identity based on the Clustal alignment method.
- Claim 4 (previously presented): The polynucleotide of Claim 1, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:16 have at least 95% identity based on the Clustal alignment method.
- Claim 5 (previously presented): The polynucleotide of Claim 1, wherein the amino acid sequence of the polypeptide comprises the amino acid sequence of SEQ ID NO:16.
- Claim 6 (previously presented): The polynucleotide of Claim 1 wherein the nucleotide sequence comprises the nucleotide sequence of SEQ ID NO:15.
 - Claim 7 (original): A vector comprising the polynucleotide of Claim 1.
- Claim 8 (original): A recombinant DNA construct comprising the polynucleotide of Claim 1 operably linked to a regulatory sequence.

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A method for transforming a cell, comprising (original): Claim 9 transforming a cell with the polynucleotide of Claim 1.

(original): A cell comprising the recombinant DNA construct of Claim 10 Claim 8.

A method for producing a plant comprising Claim 11 (original): transforming a plant cell with the polynucleotide of Claim 1 and regenerating a plant from the transformed plant cell.

(original): A plant comprising the recombinant DNA construct of Claim 12 Claim 8.

(original): A seed comprising the recombinant DNA construct of Claim 13 Claim 8.

Claims 14-20 (cancelled)